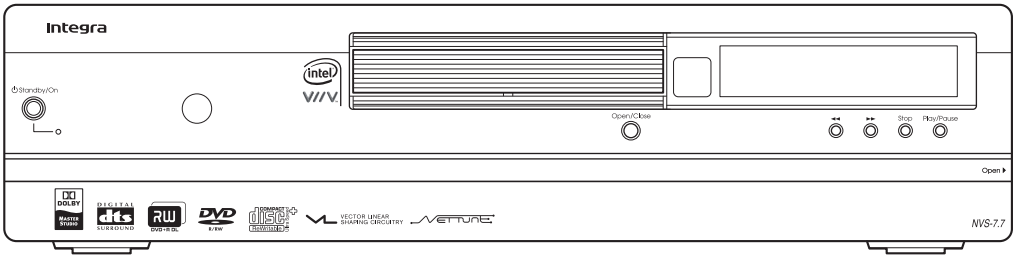
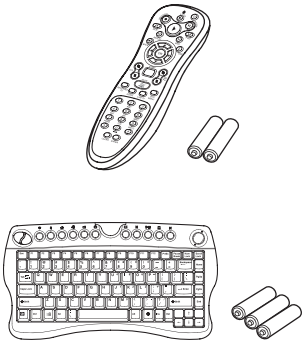
Ref. No. 3943
Jun, 2006

Integra SERVICE MANUAL

Integrated Media Center
MODEL NVS-7.7





Black model

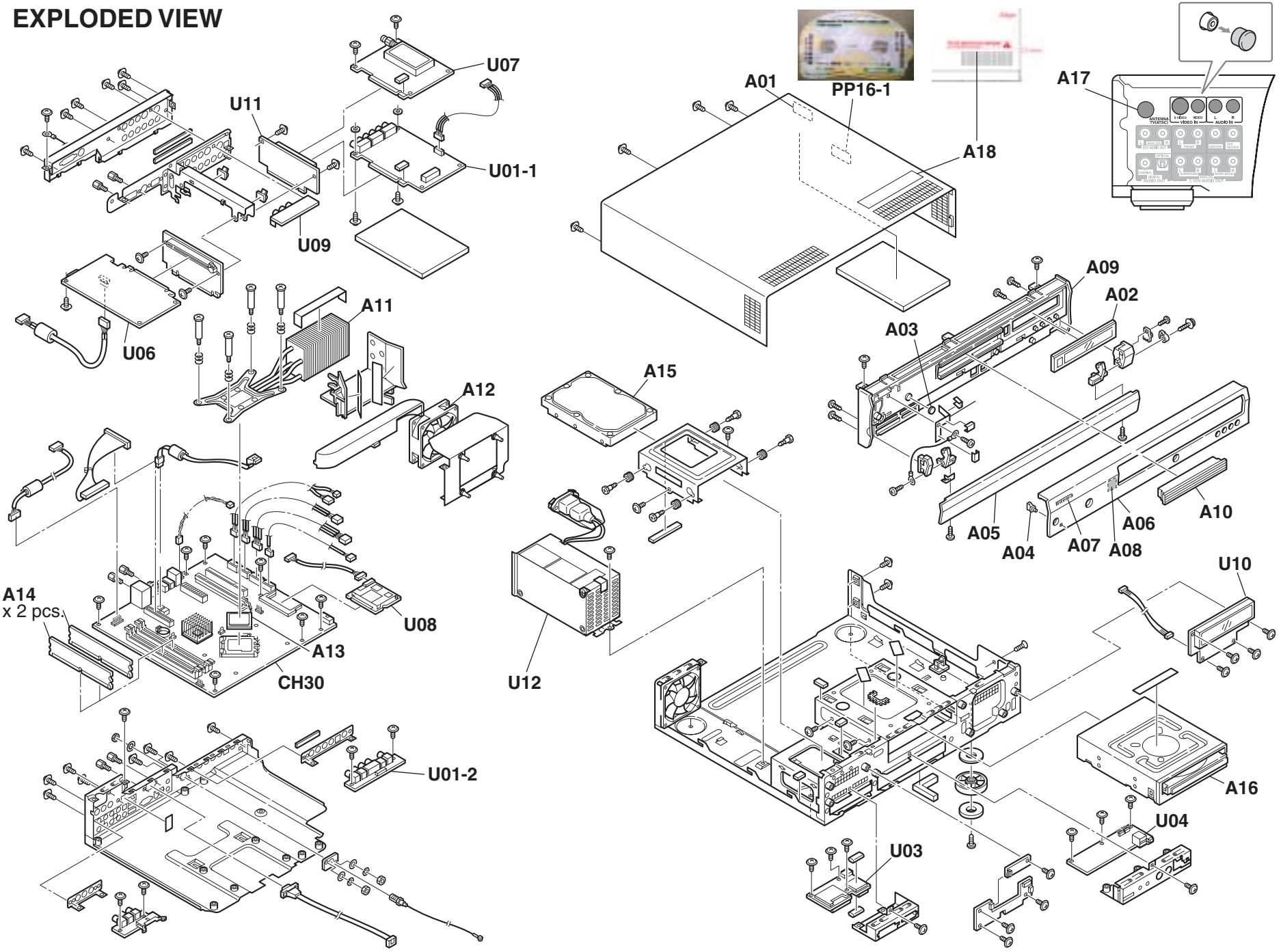
BMDD	120V AC, 60Hz

SAFETY-RELATED COMPONENT WARNING!!

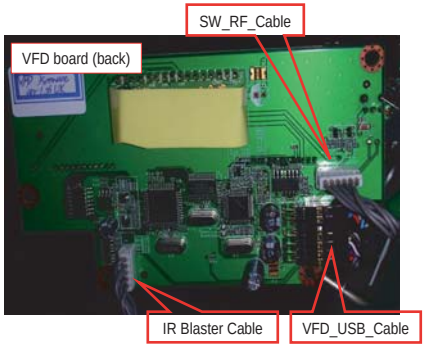
COMPONENTS IDENTIFIED BY MARK ⚠ ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

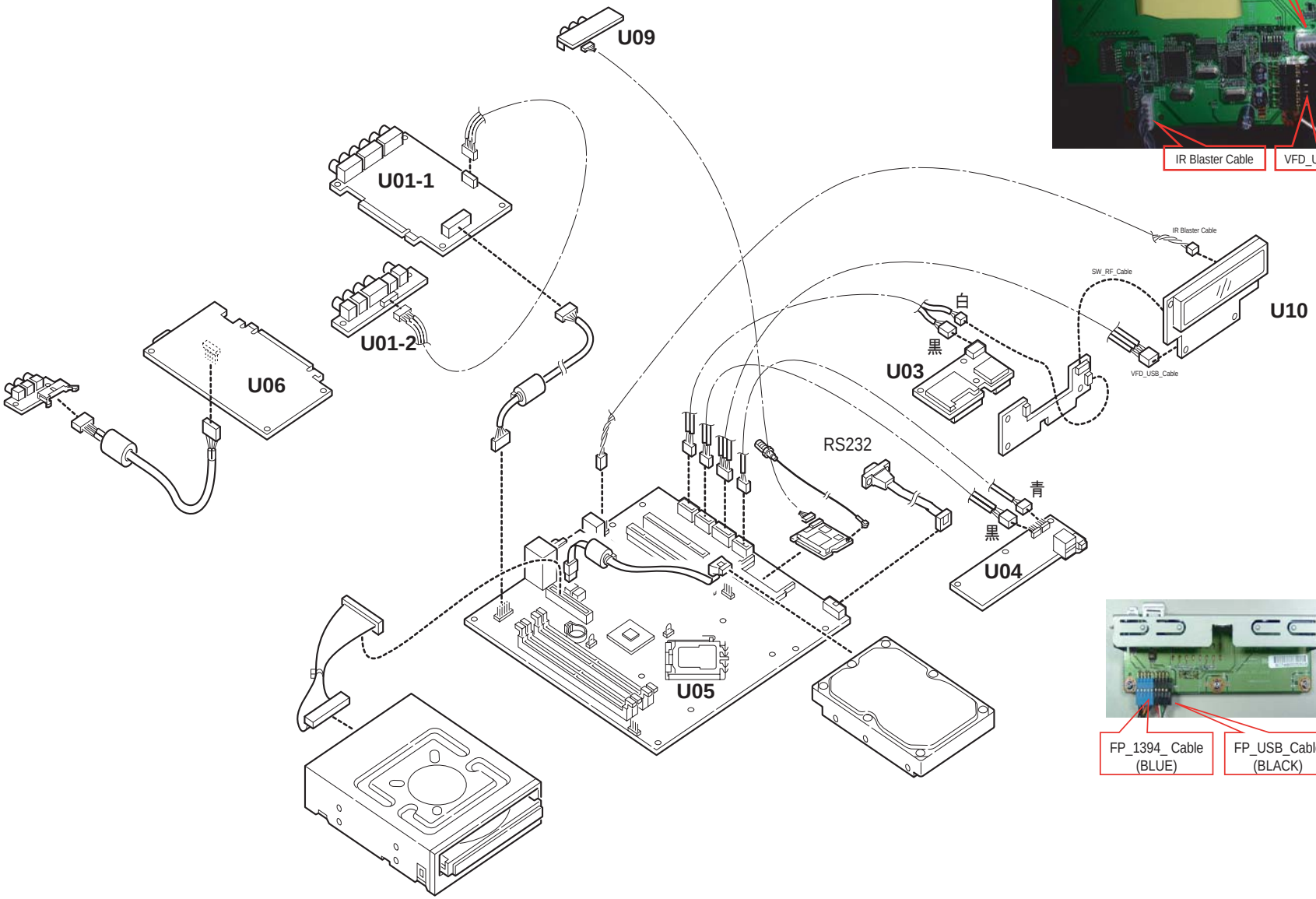
MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

EXPLODED VIEW

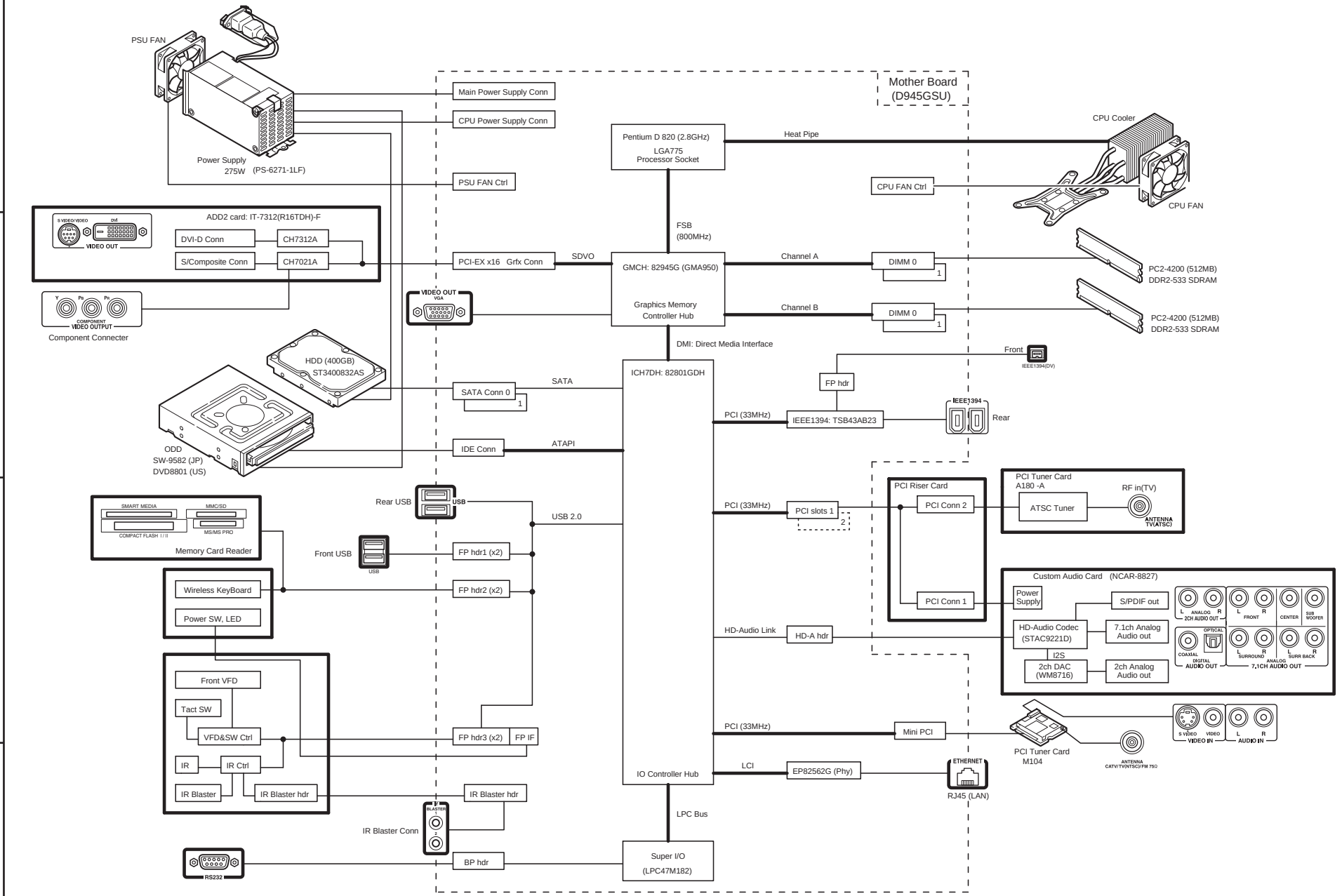


WIRING DIAGRAM

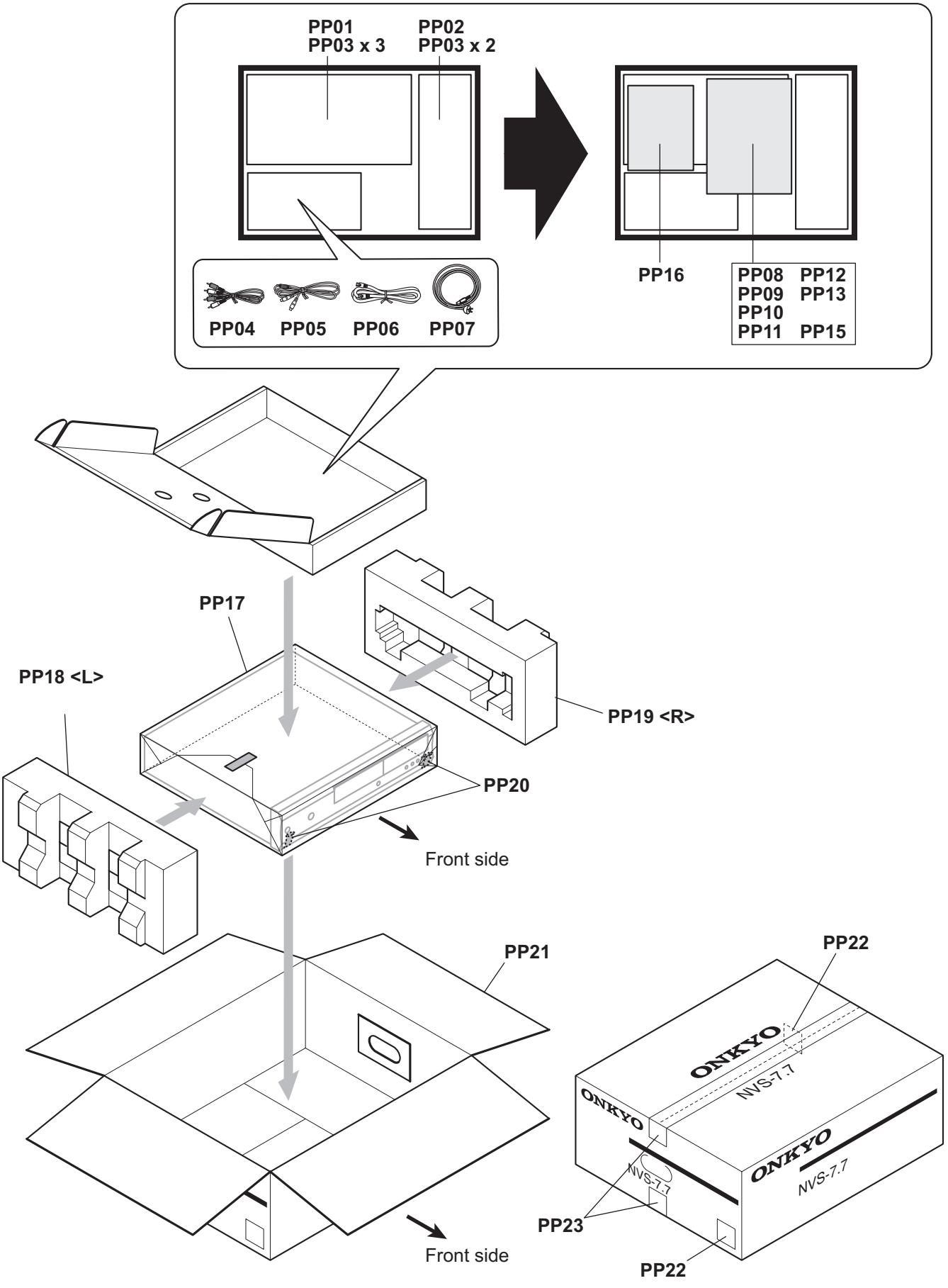




BLOCK DIAGRAMS



PACKING PROCEDURE

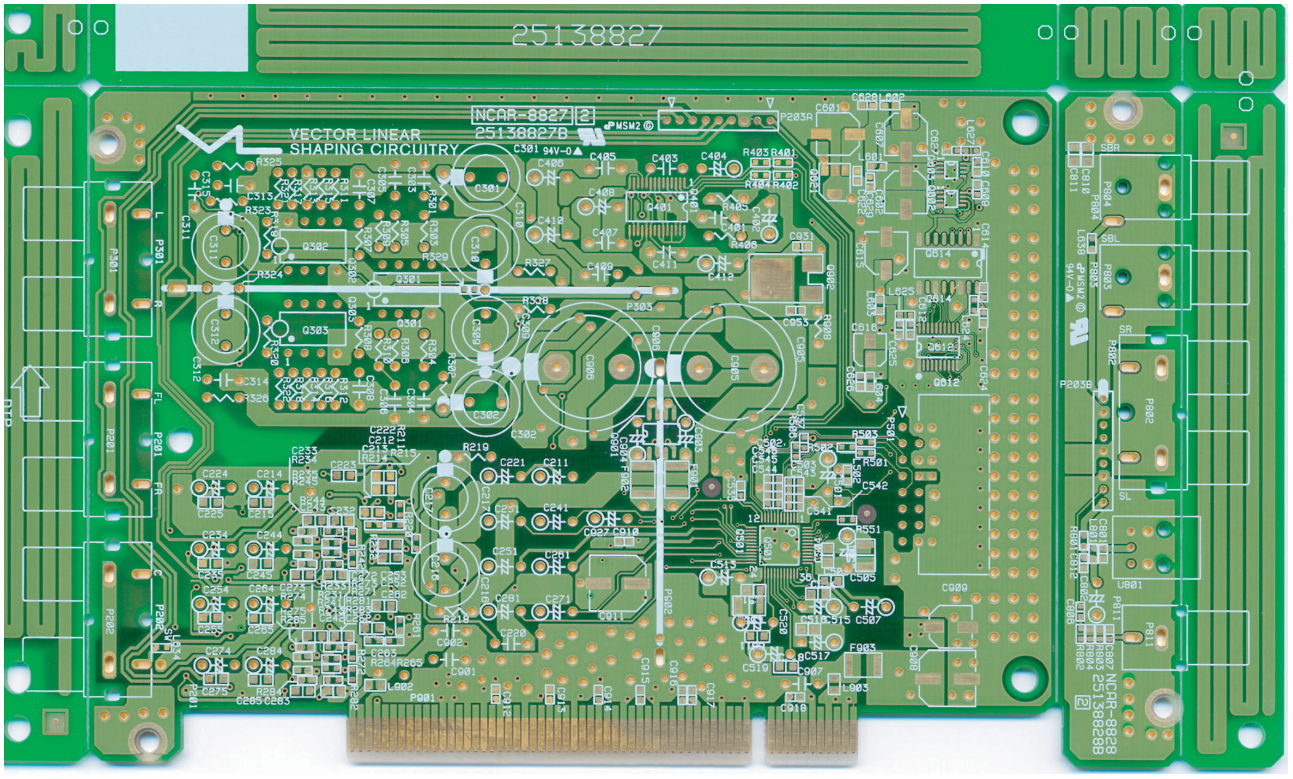


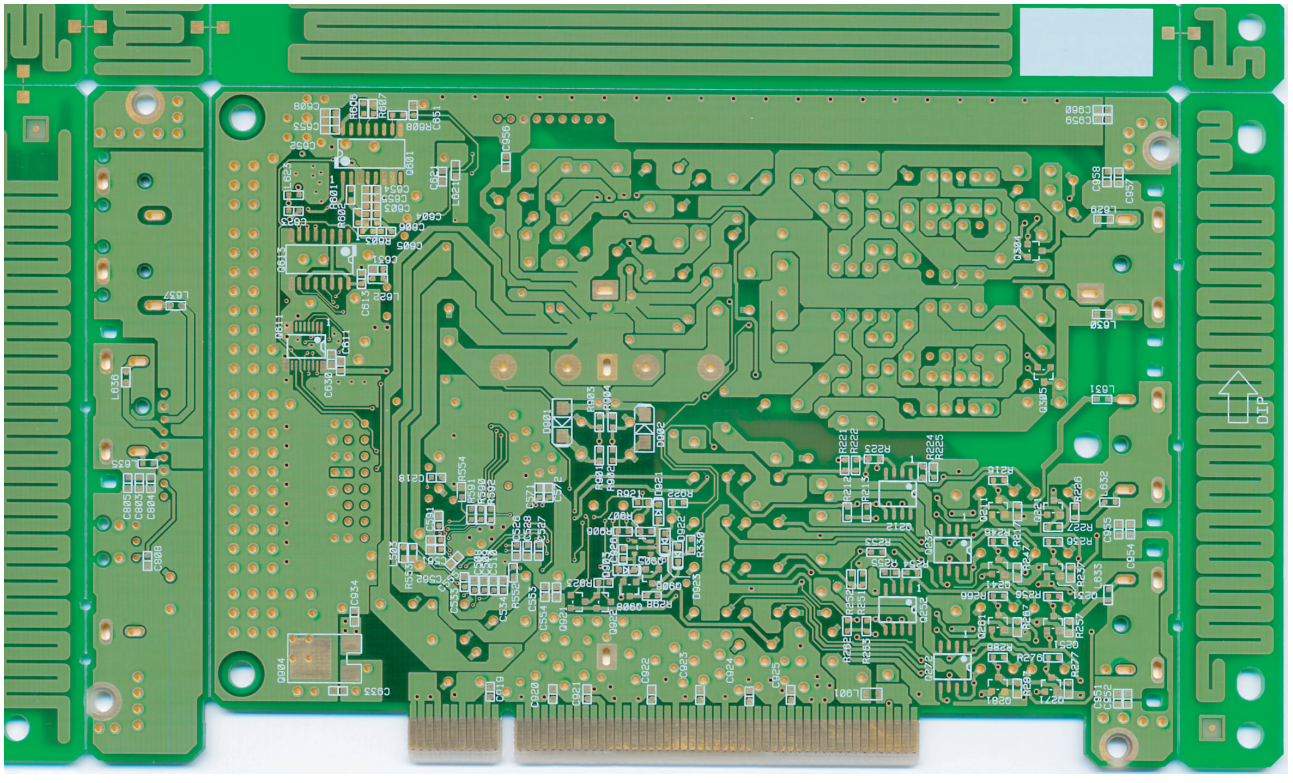
A B C D

1 2 3 4 5

PRINTED WIRING BOARD VIEW

AUDIO OUTPUT CIRCUIT PC BOARD





SERVICE NOTE - 1

PRECAUTIONS

1.Ground for the work-desk.
Place a conductive sheet such as a sheet of copper (with impedance lower than 10Mohm) on the work-desk and place the set on the conductive sheet so that the chassis.

2.Grounding for the test equipments and tools.
Test equipments and toolings should be grounded in order that their ground level is the same the ground of the power source.

3. Grounding for the human body.
Be sure to put on a wrist-strap for grounding whose other end is grounded.
Be particularly careful when the workers wear synthetic fiber clothes, or air is dry.

4. Select a soldering iron that permits no leakage and have the tip of the iron well-grounded.

5. Do not check the laser diode terminals with the probe of a circuit tester or oscilloscope.

Safety-check out

(Only U.S.A. model)
After correcting the original service problem perform the following safety check before releasing the set to the customer.
Connect the insulating-resistance tester between the plug of power supply cord and terminal GND on the back panel.
Specifications: More than 10Mohms at 500V.

SERVICE NOTE - 2

JIGS AND INSTRUMENTS

VGA or
DVI MONITOR

FLOPPY DISK DRIVE
(USB CONNECTION)

FLOPPY DISK
(3 PCS)

KEYBOARD
(USB CONNECTION)

(1) BIOS UPDATE

PREPARATION

1. Create an MS-DOS startup disk.

FD1

FORMAT as in the
right figure
checking option.

2. Create an bios update disk.

FD2

EXTRACT BIOS0070US.zip.
COPY IT TO FLOPPY DISK 2.

3. Create an bios setting disk.

FD3

EXTRACT ITK0070US060807.zip.
COPY IT TO FLOPPY DISK 3.

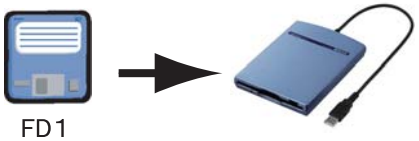
SERVICE NOTE - 3

BIOS UPDATE

PROCEDURE

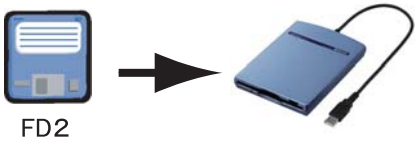
1. Connect FD drive.

2. Startup MS-DOS mode.



Insert FD1 into FD drive.
Press [Stanby/On] button.

3. Insert FD2.

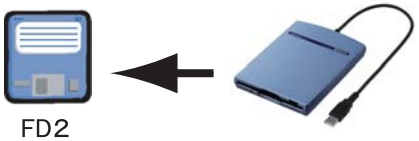


4. Update BIOS.

update70

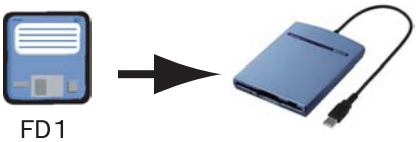
Input 'update70'

5. Remove FD2 and press any key.



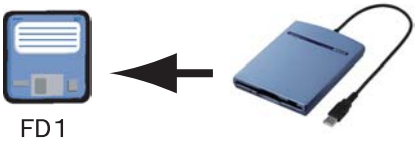
6. NVS-7.7 will restart automatically and update BIOS..

7. Insert FD1 before BIOS update ends.

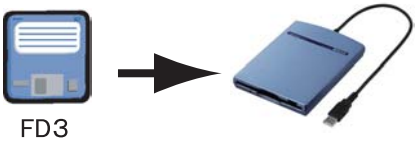


When BIOS update ends, the system restarts automatically.
If FD1 is inserted, it starts with MS-DOS mode.
When it does not start with MS-DOS mode, please turn off one time power, do again to start when FD1 is inserted.

8. Remove FD1(Boot FD).



9. Insert FD3.



10. Run 'ITK' program.

itk

INPUT 'itk'

When itk is executed right, message is appeared and the system restarts automatically. As for itk there are many times when it fails, message is not appeared, case in addition the system does not restart automatically, once more please input with "itk".

The version verification method of BIOS

1. The system is started, at the time of BIOS picture indication the F2 button is pushed.
2. Because the BIOS menu is indicated, you verify whether BIOS Version SU94510J.86A.0070.2006.0409.2238.

SERVICE NOTE - 4

To initialize the unit

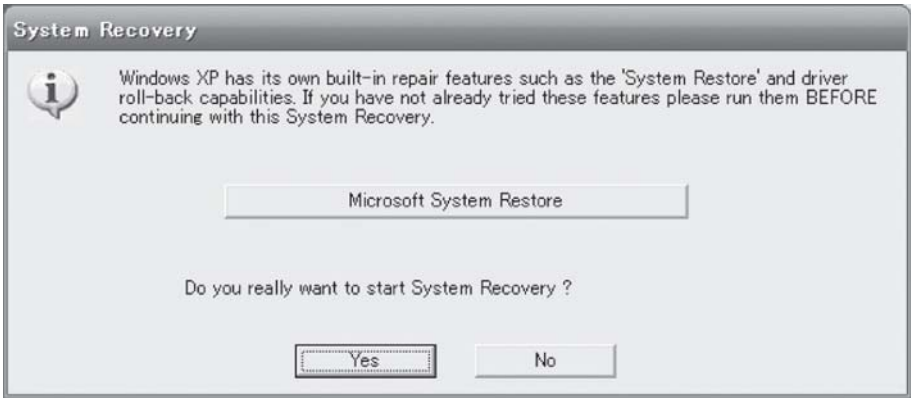
Quick Format System Recovery

1 **Disconnect all peripherals attached to the NVS-7.7.**

To safely remove a USB device, click the Eject Hardware icon in the taskbar, and then click the **Safely Remove USB** message. When the **Safe To Remove Hardware** message appears, disconnect the USB device.

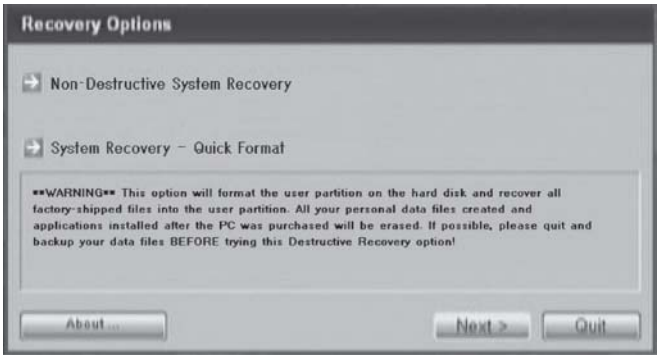
2 **Click the Start button, click All Programs, and then click System Recovery.**

The System Recovery dialog box appears.


System Recovery
Windows XP has its own built-in repair features such as the 'System Restore' and driver roll-back capabilities. If you have not already tried these features please run them BEFORE continuing with this System Recovery.
Microsoft System Restore
Do you really want to start System Recovery ?
Yes
No

3 **Click the Yes button.**

The NVS-7.7 restarts in System Recovery mode, and then the Recovery Options dialog box appears. Read the dialog box carefully.

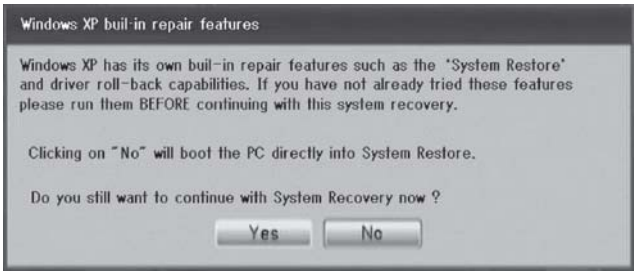

Recovery Options
Non-Destructive System Recovery
System Recovery - Quick Format
WARNING This option will format the user partition on the hard disk and recover all factory-shipped files into the user partition. All your personal data files created and applications installed after the PC was purchased will be erased. If possible, please quit and backup your data files BEFORE trying this Destructive Recovery option!
About...
Next >
Quit

SERVICE NOTE - 5

System Recovery—*Continued*

4 **Click System Recovery - Quick Format, and then click the Next button.**

The following dialog box appears.
Read the dialog box carefully.


Windows XP buil-in repair features
Windows XP has its own buil-in repair features such as the 'System Restore' and driver roll-back capabilities. If you have not already tried these features please run them BEFORE continuing with this system recovery.
Clicking on "No" will boot the PC directly into System Restore.
Do you still want to continue with System Recovery now ?
Yes
No

5 **Click the Yes button.**

The System Recovery - Format and Recover dialog box appears.
Make sure that a Quick Format System Recovery is really necessary before continuing.

System Recovery Format and Recover
All filles, including data files, on the user partition will be lost and the original factory-shipped files will be recovered to the user partition.
Do you want to continue?
Yes
No

6 **Click the Yes button to start the system recovery.**

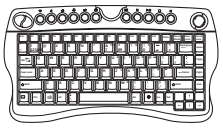
System recovery takes about 30 minutes.
"Recovery finished!" appears when the system recovery is complete.

7 **Click the Restart button to restart the NVS-7.7.**

CHECK - 1

JIGS and INSTRUMENTS

TELEVISION
(COMPONENT INPUT)



WIRELESS KEYBOARD
or USB KEYBOARD

USB MOUSE

MONITOR (VGA or DVI INPUT)

DVD-VIDEO DISC

SmartMedia or MMC/SD or Compact Flash or Memory Stick

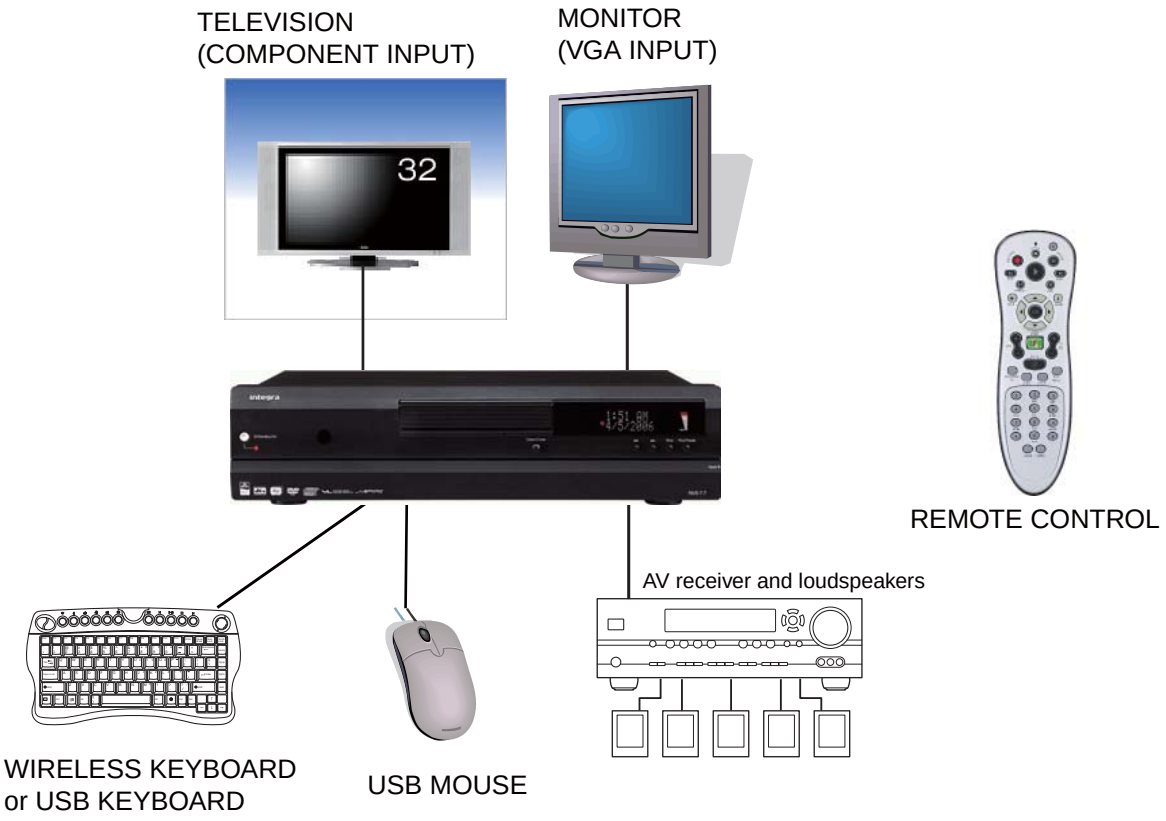
USB FLOPPY DISK DRIVE

FLOPPY DISK 3PCS

REMOTE CONTROL

CHECK - 2

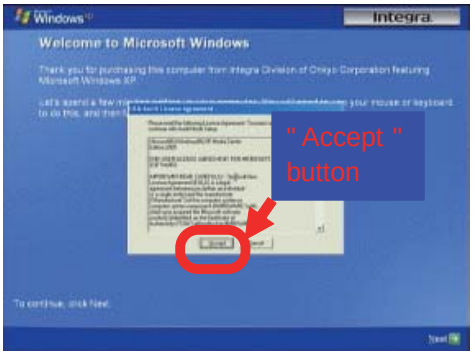
STEP1 CONNECT TV BY COMPONENT VIDEO CABLE.
CONNECT MONITOR BY VGA CABLE.
CONNECT USB KEYBOARD AND USB MOUSE.



STEP2 PUSH Standby/On BUTTON.

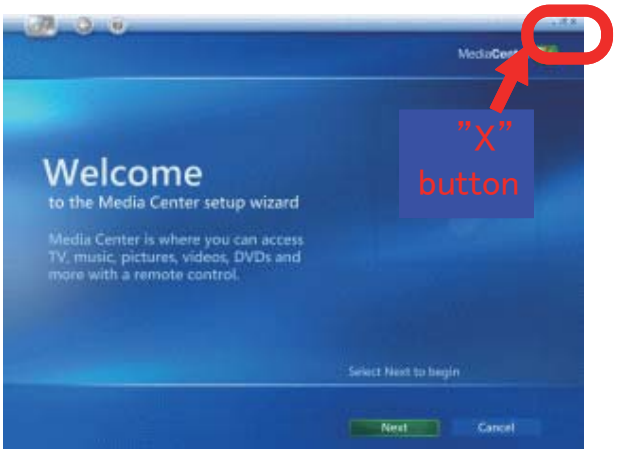
STEP3 WHEN OOBE(Welcome to Microsoft Windows) APPEAR,
ENTER [Ctrl] + [SHIFT] + [F3]

STEP4 WHEN OEM Audit Licernce Agreement APPEAR, CLICK [ACCEPT] BUTTON



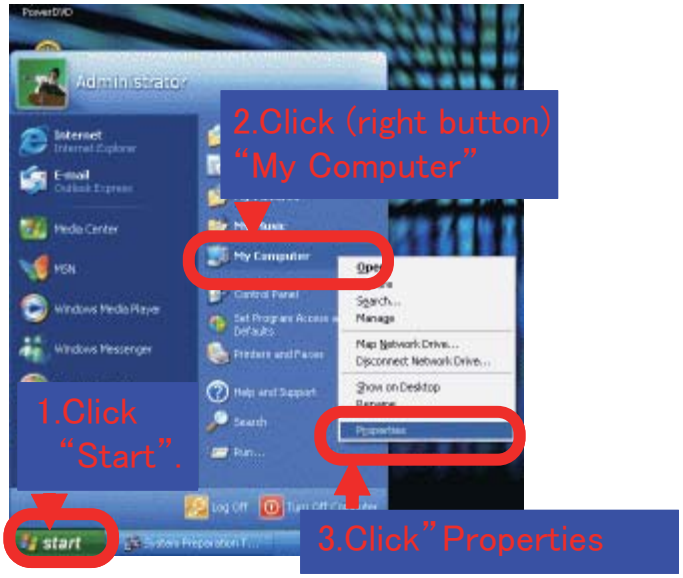
CHECK - 3

STEP12 CLOSE Media Center.



STEP13 RUN "System Properties"

1. CLICK "Start" BUTTON.
2. CLICK(RIGHT BUTTON) "My Computer".
3. CLICK "Properties".



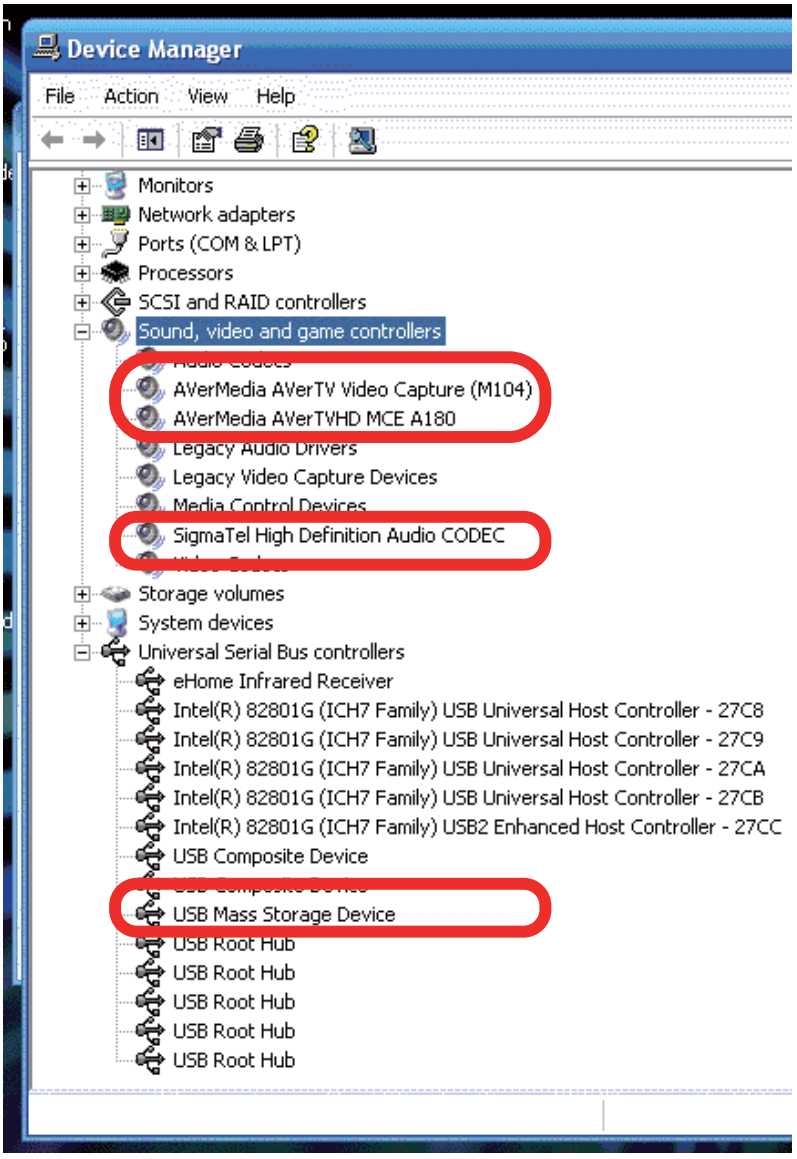
STEP14 RUN "Device Manager".

1. CLICK "Hardware" TAB of System Properties.
2. CLICK "Device Manager"BUTTON.

CHECK - 4

STEP8 INSERT CARD INTO MULTI MEDIA SLOTS.

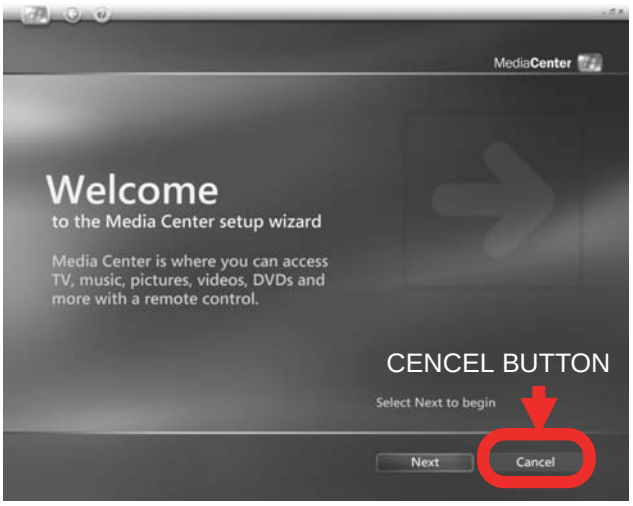
STEP9 WITH Device Manager
IN Sound, Video and game controllers
>AverMedia AverTV Video Capture (M104)
>AverMedia AverTVHD MCE A180
>SigmaTel High Definition Audio CODEC
IN Universal Serial Bus controllers
>USB Mass Storage Device


Device Manager
File Action View Help
Monitors
Network adapters
Ports (COM & LPT)
Processors
SCSI and RAID controllers
Sound, video and game controllers
AVerMedia AVerTV Video Capture (M104)
AVerMedia AVerTVHD MCE A180
Legacy Audio Drivers
Legacy Video Capture Devices
Media Control Devices
SigmaTel High Definition Audio CODEC
Storage volumes
System devices
Universal Serial Bus controllers
eHome Infrared Receiver
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27C8
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27C9
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27CA
Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27CB
Intel(R) 82801G (ICH7 Family) USB2 Enhanced Host Controller - 27CC
USB Composite Device
USB Mass Storage Device
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub

CHECK - 5

STEP10 PUSH [START] BUTTON WITH REMOTE CONTROL UNIT

STEP11 CLICK [Cancel] AND [Finish]


MediaCenter
Welcome
to the Media Center setup wizard
Media Center is where you can access TV, music, pictures, videos, DVDs and more with a remote control.
CENCEL BUTTON
Select Next to begin
Next
Cancel

STEP12 INSERT DVD-MOVIES WHEN MediaCenter MAIN MENU APPEARS

STEP13 CONFIRM PLAYING DVD-MOVIES
When it is not played back automatically, please select "Play DVD" menu of MediaCenter.

STEP14 REMOVE DVD DISC
STEP15 SELECT "My TV" MENU OF MEDIA CENTER
STEP16 "Set Up TV Signal" MENU APPEARS
1."Yes,use this region.."
2."I will manually..."
3."Antenna"
4.Digital TV="Yes"
5.use TV Guide="No"
Below abbreviation

STEP17 SELECT "Live TV" MENU AND WATCHING TV

STEP18 QUIT MEDIA CENTER
STEP19 CONNECT AV RECEIVER AND LOUDSPEAKERS TO CHECK OUTPUT OF AUDIO CARD
STEP20 PLAY 8CH AUDIO SIGNAL WITH Windows Media Player

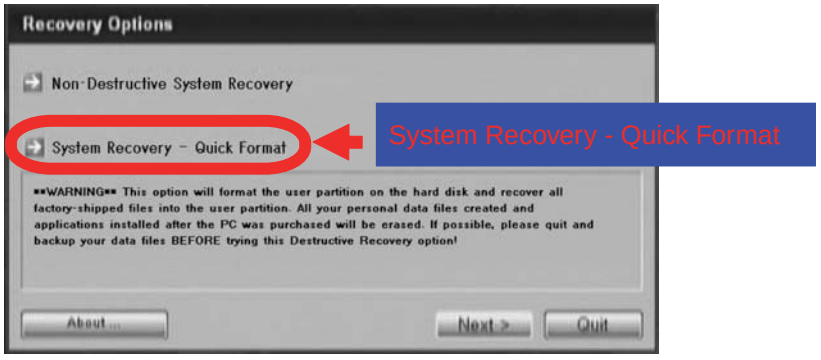
STEP21 CONFIRM AUDIO SIGNAL FROM EACH OUTPUT TERMINALS OF AUDIO CARD

STEP22 END PLAYING 8CH AUDIO SIGNAL

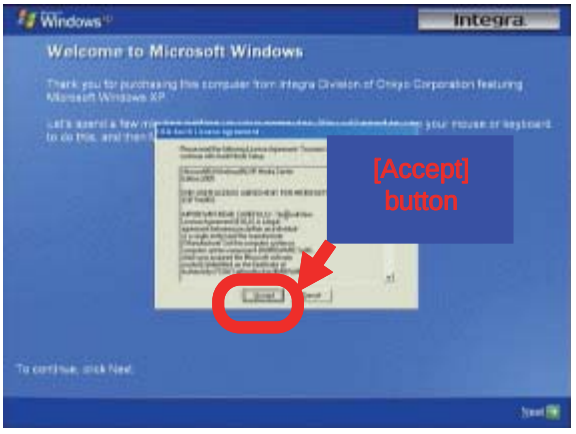
CHECK - 6
When being necessary to initialize HDD

STEP23 RESTART "System Recovery" MODE
=Click the Start button, click All Programs, and then click System Recovery.

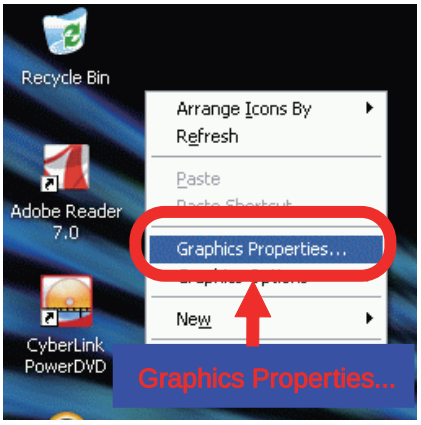
STEP24 QUICK FORMAT SYSTEM RECOVERY


Recovery Options
Non-Destructive System Recovery
System Recovery - Quick Format
WARNING This option will format the user partition on the hard disk and recover all factory-shipped files into the user partition. All your personal data files created and applications installed after the PC was purchased will be erased. If possible, please quit and backup your data files BEFORE trying this Destructive Recovery option!
About ...
Next >
Quit
System Recovery - Quick Format

STEP25 “Recovery finished!” APPEARS THEN CLICK [Restart] BUTTONTO RESTART NVS-7.7
STEP26 OOBE（Welcome to Microsoft Windows）APPEARS THEN ENTER [Ctrl] + [Shift] + [F3]
STEP27 OEM Audit License Agreement WINDOW APPEARS THEN CLICK [Accept] BUTTON



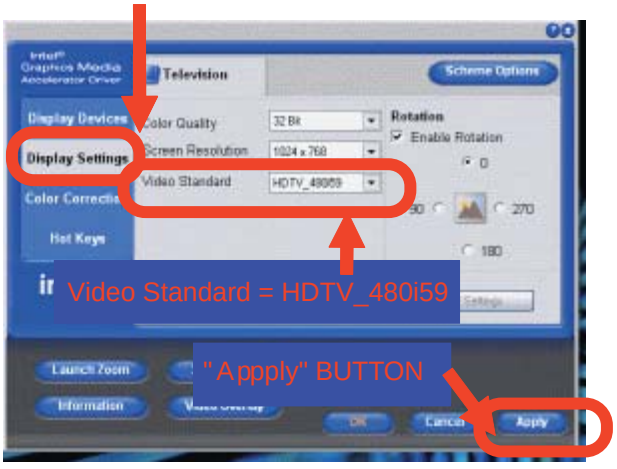
STEP28 MEDIA CENTER APPEARS THEN CLOSE IT
STEP29 OPEN Intel Graphics Media WINDOW
RIGHT CLICK ON DESKTOP >>> CLICK "Graphic Properties..."



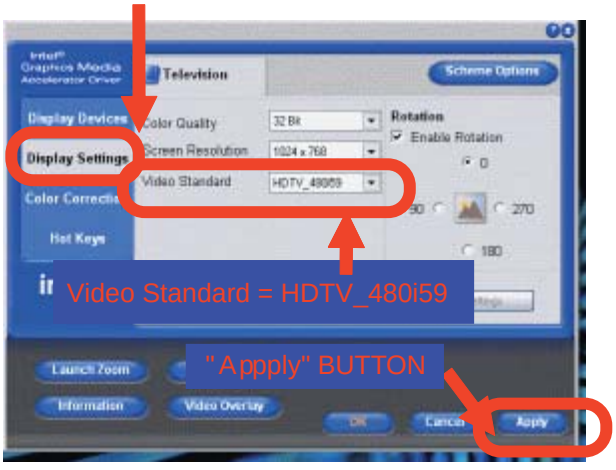
CHECK - 7

STEP30 SELECT "Television" WITH Display Devices

STEP31 CLICK "Display Settings" TAB AND THEN SET "HDTV_480i59" OF "Video Standard"



STEP32 CLICK "Apply" BUTTON AND CONFIRM TO APPEAR DESKTOP ON TV WITH COMPONENT CABLE

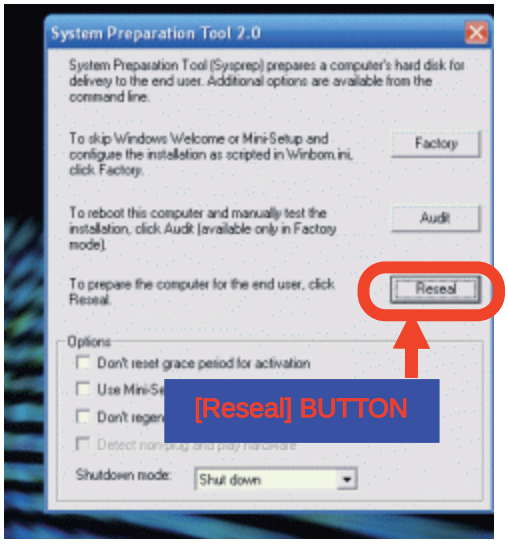


CHECK- 8

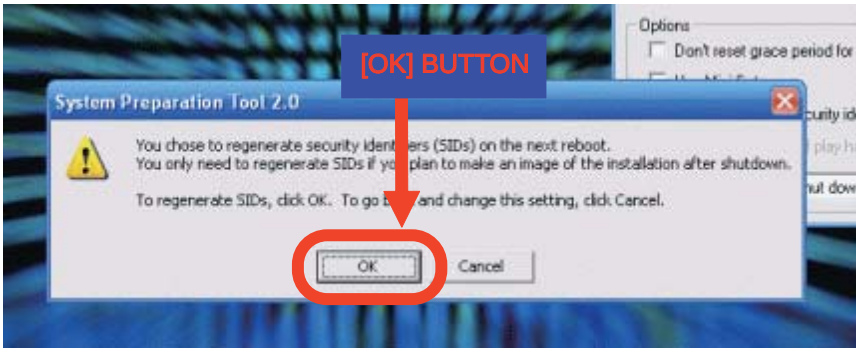
STEP33 "Confirm the DeskTop Change" WINDOW APPEARS AND THEN CLICK [OK] BUTTON WHILE 15SEC.

Confirm the Desktop Change
This desktop has been reconfigured. Do you want to keep these settings?
If you do not respond within 15 seconds, these changes will be canceled.
OK
Cancel
[OK] BUTTON
Hot Keys
Full Screen

STEP34 CLICK [Reseal] BUTTON OF "System Preparation Tool 2.0"


System Preparation Tool 2.0
System Preparation Tool (Sysprep) prepares a computer's hard disk for delivery to the end user. Additional options are available from the command line.
To skip Windows Welcome or Mini-Setup and configure the installation as scripted in Winbom.ini, click Factory.
Factory
To reboot this computer and manually test the installation, click Audit (available only in Factory mode).
Audit
To prepare the computer for the end user, click Reseal.
Reseal
[Reseal] BUTTON
Options
Don't reset grace period for activation
Shutdown mode:
Shut down

STEP35 CLICK [OK] BUTTON (NVS-7.7 WILL SHUTDOWN)


[OK] BUTTON
System Preparation Tool 2.0
You chose to regenerate security identifiers (SIDs) on the next reboot.
You only need to regenerate SIDs if you plan to make an image of the installation after shutdown.
To regenerate SIDs, click OK. To go back and change this setting, click Cancel.
OK
Cancel
Options
Don't reset grace period for

NVS-7.7

<Note>

Parts marked by "**NSP**" are generally unavailable because

they are not in our Master Spare Parts List.

NOTE : THE COMPONENTS IDENTIFIED BY THE MARK ! ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.

EXPLODED VIEW PARTS LIST

REF. NO.	PART NO. (SN)	DESCRIPTION	Q'TY	
U01	1H536527-1A	AUDIO OUTPUT CIRCUIT PC BOARD A'SSY, U01-1 & U01-2	1	
U01-1	NSP	NAAR-8827-1A, AUDIO OUTPUT CIRCUIT 1 PC BOARD A'SSY	(1)	
U01-2	NSP	NAAR-8828-1A, AUDIO OUTPUT CIRCUIT 2 PC BOARD A'SSY	(1)	
U03	82-246-100190	CARD READER (8-IN-1) - PB-FREE, OGR01	1	
U04	88-101-001200	FRONT PANEL I/O BOARD - PB-FREE	1	
U05	88-112-080200	MOTHER BOARD - PB-FREE	1	
U06	88-116-002001	DVI OUTPUT CIRCUIT BOARD, IT-CH7312(N16TDH)	1	
U07	88-109-005095	TV TUNER CARD -ATSC, A180	1	
U08	88-109-005092	TV TUNER CARD -NTSC MINI-PCI, M104	1	
U09	88-126-002000	TV DAUGHTER BOARD LEAD FREE, M9350MINTV	1	
U10	88-116-003000	VFD BOARD - PB-FREE, M9350VFD	1	
U11	88-103-000401	PCI RISER BOARD - PB-FREE, M9350E2	1	
U12	82-220-275010	PS-6271-1LF-ROHS, POWER SUPPLIER, HEPS 275W	1	N, !
A01	29364581	LABEL, (DTS)	1	N
A02	28192086	CLEAR PLT (FL)	1	N
A03	28192088	CLEAR PLT (KB)	1	N
A04	28200012	FACET (POW)	1	N
A05	28148639	DOOR	1	N
A06	27212866	FRONT PANEL	1	N
A07	28135278	BADGE	1	
A08	29364493	LABEL (VIIV)	1	
A09	27111441	FRONT BRACKET (AS)	1	N
A10	28148641	DOOR (DVD)	1	N
A11	20-120-050110	CMT550100A69, CPU COOLER (HEAT PIPE)	1	
A12	13-050-012285	DS08025T12UP020, COOLING FAN 12V/4500RPM	1	
A13	01-151-280060	CPU LGA775 820 2.8GHZ	1	
A14	01-748-104290	ADQKD1908 RAM DDR2-533 CL4 512MB 1.8V	2	
A15	82-222-400160	ST3400832AS HARD DISC DRIVE	1	
A16	82-293-016906	DVD8801 DVD-DUAL (16X)	1	

A17	28184983	Protective caps	1	N
PP16-1	Set item with PP16	Label of "Certificate of Authenticity"	1	N

PACKING PROCEDURES PARTS LIST

REF. NO.	PART NO. (SN)		Q'TY	
PP01	82-224-088204	RK0410 (US), USB Wireless Keyboard (US)	1	
PP02	82-243-509060	RC1534002/00, Remote Control	1	
PP03	3010194	BATTERY, R6/AA(UM-3)	5	
PP04	2010362	PIN CORD AS 1.5m	1	
PP05	14-312-180112	S-Video Cable/Composite Cable (Combine-Type)	1	
PP06	2010417	LAN Cable NOP-8P300	1	
PP07	14-422-200110	Power Cord (US)	1	!
PP08	29344154	INS MANUAL, En(NVS-7.7)	1	N
PP08-1	29355566	INST SHEET, En(LICENSE-KEY for Power-DVD)	{ 1}	N
PP09	29344296	INS MANUAL, En Media Center)B5	1	N
PP10	29355578A	INST SHEET, En(ERRATA, COMPONENT VIDEO OUTPUT)	1	N
PP11	29355572	INST SHEET, EnJa(DolbyMaster Studio)	1	N
PP12	29355573	INST SHEET, EnJa(About the protective caps)	1	N
PP13	29355576A	INST SHEET, EnJa(SigmaTel Audio Dolby Settings)	1	N
PP15	29365103	WRNTY CARD, (INTEGRA)	1	
PP16	0P75	WINDOWS XP MEDIA CENTER EDITION CD-ROM	1	N
PP17	29095847	LAMI SHEET	1	
PP18	32-040-080640	PAD-L	1	N
PP19	32-040-080641	PAD-R	1	N
PP20	29110069	TAPE FIXLON W12		
PP21	42-029-100221	CARTON	1	N
PP22	-	LABEL UPC	2	
PP23	29110176	TAPE NITTO 3703		

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